

## AMMONIUM NITRATE SOLUTION – 29%

### Description

Ammonium Nitrate (AN) Solution - 29% consists of pure ammonium nitrate and water. TradeMark Nitrogen supplies AN solution in 21, 24, 29 and 30 percent nitrogen solutions. Though others can be supplied by special request.

### Uses

- Direct application as nitrogen fertilizer. Higher percent nitrogen grades can be diluted with water for that purpose
- In the manufacture of catalysts for petroleum refining
- In the production of other nitrate salts

### Handling and Storage

Ammonium nitrate solutions should be stored in stainless steel or other corrosion resistant vessels. Pipe lines and fittings should be of similar materials. These solutions must be stored above their salting-out temperatures. Heating coils or heat exchangers must be installed with storage vessels where ambient temperatures below salting-out temperatures are expected for long durations.

Always conduct a jar test with new tank mixes to verify compatibility.

### Shipping

Ammonium Nitrate Solution – 29% is classified as a hazardous material by the US Department of Transportation. The proper shipping name is: UN2426, Ammonium Nitrate, Liquid (Hot Concentrated Solution), 5.1. The Emergency Response Guidebook number is 140.

Shipments are made by rail or tank trucks. Bulk shipments must be placarded.



### Chemical & Physical Properties

CAS Number	6484-52-2
Molecular Weight	N/A
Specific Gravity @ 60°F (15.5°C)	1.359
pH	6.3 – 7.8
Salt-Out Temperature	155°F (68.3°C)
Color	Clear
Odor	Little to no detectable odor
Weight per Gallon @ 60°F (15.5°C)	11.33 lbs/gal (1.36 kg/L)
Gallons per ton	176.52

### Typical Analysis

Total Nitrogen	29%
Ammonium Nitrate	83.0%
Free Ammonia	0.2%
Water (Approx)	17.0%

The data presented herein are believed to be accurate but are in no way guaranteed. TradeMark Nitrogen Corp. makes no warranties, express or implied, that any of the above data is fit for any particular use and expressly disclaims all oral warranties of any kind.

Rev: 2014-08



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